



# TEST REPORT

**Reference No.** ..... : WTX25X06169770W003  
**Manufacturer** ..... : Lumi United Technology Co., Ltd  
**Address** ..... : Room 801-804, Building 1, Chongwen Park, Nanshan iPark, No. 3370, Liuxian Avenue, Fuguang Community, Taoyuan Residential District, Nanshan District, Shenzhen, China  
**Product Name** ..... : Light Switch H2 Horizontal (4 Buttons, 3 Channels), Light Switch H2 Horizontal (2 Buttons, 2 Channels), Light Switch H2 Horizontal (2 Buttons, 1 Channel)  
**Model No.** ..... : WS-K14D, WS-K13D, WS-K12D  
**Standards** ..... : AS/NZS 4268:2017+A1:2021  
**Date of Receipt sample** ..... : 2025-06-27  
**Date of Test** ..... : 2025-06-27 to 2025-07-28  
**Date of Issue** ..... : 2025-07-28  
**Test Report Form No.** ..... : WTX\_AS/NZS 4268\_2021W  
**Test Result** ..... : Pass

**Remarks:**

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of approver.

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## Report version

Version No.	Date of issue	Description
Rev.00	2025-07-28	Original
/	/	/

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## 1. GENERAL INFORMATION

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### 1.1 Product Description for Equipment Under Test (EUT)

<b>General Description of EUT</b>	
Product Name:	Light Switch H2 Horizontal (4 Buttons, 3 Channels),Light Switch H2 Horizontal (2 Buttons, 2 Channels),Light Switch H2 Horizontal (2 Buttons, 1 Channel)
Trade Name:	Aqara
Model No.:	WS-K14D
Adding Model(s):	WS-K13D,WS-K12D
Rated Voltage:	110-240VAC
Battery Capacity:	/
Adapter Model:	/
Software Version:	1.0.1.0
Hardware Version:	1.0.0.0
<p><i>Note: The test data is gathered from a production sample, provided by the manufacturer. The appearance of others models listed in the report is different from main-test model WS-K14D, but the circuit and the electronic construction do not change, declared by the manufacturer.</i></p>	

<b>Technical Characteristics of EUT (Thread)</b>	
Frequency Range:	2405MHz-2480MHz
Max.RF Output Power:	7.03dBm (EIRP)
Modulation:	QPSK
Quantity of Channels:	16
Channel Separation:	5MHz
Type of Antenna:	Integral Antenna
Antenna Gain:	0dBi
<p><i>Note: The Antenna Gain is provided by the customer and can affect the validity of results.</i></p>	



## 1.2 Test Standards

The tests were performed according to following standards:

**AS/NZS 4268:2017+A1:2021:** Radio equipment and systems-Short range devices-Limits and methods of measurement.

**ETSI EN 300 328 V2.2.2 (2019-07):** Wideband transmission systems; Data transmission equipment operating in the 2.4 GHz band; Harmonised Standard for access to radio spectrum.

**Maintenance of compliance** is the responsibility of the manufacturer. Any modification of the product maybe which result in lowering the emission/immunity should be checked to ensure compliance has been maintained.

## 1.3 Test Methodology

All measurements contained in this report were conducted with ETSI EN 300328, the equipment under test (EUT) was configured to measure its highest possible emission level. For more detail refer to the Operating Instructions.

## 1.4 Test Facility

### Address of the test laboratory

Laboratory: Waltek Testing Group (Shenzhen) Co., Ltd.

Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road, Block 70 Bao'an District, Shenzhen, Guangdong, China

### FCC – Registration No.: 125990

Waltek Testing Group (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. The Designation Number is CN5010, and Test Firm Registration Number is 125990.

### Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Waltek Testing Group (Shenzhen) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A.



## 1.5 EUT Setup and Test Mode

The equipment under test (EUT) was configured to measure its highest possible emission/immunity level. The test modes were adapted according to the operation manual for use, the EUT was operated in the engineering mode to fix the Tx/Rx frequency that was for the purpose of the measurements, more detailed description as follows:

<b>Test Mode List</b>			
Test Mode	Description	Remark	
TM1	Thread	2405/2440/2480MHz	

	NTNV	LTVN	HTNV
Temperature (°C)	20	-10	40
Voltage (V)	AC230V		
Relative Humidity:	45 %.		
ATM Pressure:	1019 mbar		

<b>EUT Cable List and Details</b>			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
/	/	/	/

<b>Special Cable List and Details</b>			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
AC Cable	1.0	Unshielded	Without Ferrite

<b>Auxiliary Equipment List and Details</b>			
Description	Manufacturer	Model	Serial Number
/	/	/	/



## 1.6 Measurement Uncertainty

Measurement uncertainty		
Parameter	Uncertainty	Note
Radio frequency	0.4ppm	(1)
Conducted RF Output Power	0.57dB	(1)
Occupied Bandwidth	0.015MHz	(1)
Conducted Power Spectral Density	0.70dB	(1)
Conducted Spurious Emission	2.17dB	(1)
Radiated Spurious Emissions	30-200MHz, 4.52dB	(1)
	0.2-1GHz 5.56dB	(1)
	1-6GHz, 3.84dB	(1)
	6-18GHz, 3.92dB	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.



## 1.7 Test Equipment List and Details

Description	Manufacturer	Model	Serial Number	Cal Date	Due Date
Spectrum Analyzer	Agilent	N9020A	US47140102	2025-02-23	2026-02-22
Signal Generator	Agilent	83752A	3610A01453	2025-02-23	2026-02-22
Vector Signal Generator	Agilent	N5182A	MY47070202	2025-02-23	2026-02-22
Power Sensor	Agilent	U2021XA	MY54250019	2025-02-23	2026-02-22
Power Sensor	Agilent	U2021XA	MY54250021	2025-02-23	2026-02-22
Simultaneous Sampling	Agilent	U2531A	TW54243509	2025-02-23	2026-02-22
MXA Signal Analyzer	KEYSIGHT	N9020A	MY51285677	2025-02-23	2026-02-22
RF Control Unite	Tonscend	JS0806-2	24F806208702	2025-02-23	2026-02-22
Temperature&Humidity Chamber	/	HTC-1	/	2025-02-23	2026-02-22
Universal Radio Communication Tester	Rohde & Schwarz	CMW500	148650	2025-02-23	2026-02-22
Attenuator	Pasternack	PE4007-4	/	2025-02-23	2026-02-22
Coaxial Cable	/	0M4RFC	/	2025-02-23	2026-02-22
<input type="checkbox"/> Chamber A: Below 1GHz					
Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2025-02-23	2026-02-22
EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2025-02-23	2026-02-22
Amplifier	HP	8447F	2805A03475	2025-02-23	2026-02-22
Loop Antenna	Schwarz beck	FMZB 1516	9773	2024-02-26	2026-02-25
Broadband Antenna	Schwarz beck	VULB9163	9163-333	2025-02-23	2026-02-22
Coaxial Cable	/	RC_6G-N-M	/	2025-02-23	2026-02-22
Coaxial Cable	/	RC_6G-N-M	/	2025-02-23	2026-02-22
Coaxial Cable	/	RC_6G-N-M	/	2025-02-23	2026-02-22
<input type="checkbox"/> Chamber A: Above 1GHz					
Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2025-02-23	2026-02-22
Spectrum Analyzer	Rohde & Schwarz	FSP40	100612	2025-02-23	2026-02-22
EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2025-02-23	2026-02-22
Amplifier	C&D	PAP-1G18	2002	2025-02-23	2026-02-22
Horn Antenna	ETS	3117	00086197	2025-02-23	2026-02-22
DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2024-03-17	2026-03-16
Pre-amplifier	Schwarzbeck	BBV 9721	9721-031	2025-02-23	2026-02-22
Coaxial Cable	/	C16-07-07	/	2025-02-23	2026-02-22
Coaxial Cable	/	C16-07-07	/	2025-02-23	2026-02-22
Coaxial Cable	/	C16-07-07	/	2025-02-23	2026-02-22



<input type="checkbox"/> Chamber B:Below 1GHz					
Trilog Broadband Antenna	Schwarz beck	VULB9163(B)	9163-635	2024-03-17	2027-03-16
Amplifier	Agilent	8447D	2944A10457	2025-02-23	2026-02-22
EMI Test Receiver	Rohde & Schwarz	ESPI	101391	2025-02-23	2026-02-22
Coaxial Cable	/	1.5MRFC-LWB3	/	2025-02-23	2026-02-22
Coaxial Cable	/	RG 316	/	2025-02-23	2026-02-22
Coaxial Cable	/	RG 316	/	2025-02-23	2026-02-22
<input checked="" type="checkbox"/> Chamber C:Below 1GHz					
EMI Test Receiver	Rohde & Schwarz	ESIB 26	100401	2025-02-23	2026-02-22
Trilog Broadband Antenna	Schwarz beck	VULB 9168	1194	2024-04-18	2027-04-17
Loop Antenna	Schwarz beck	FMZB 1516	9773	2024-02-26	2026-02-25
Amplifier	HP	8447F	2944A03869	2025-02-23	2026-02-22
Coaxial Cable	/	RC_6G-N-M	/	2025-02-23	2026-02-22
Coaxial Cable	/	RC_6G-N-M	/	2025-02-23	2026-02-22
Coaxial Cable	/	RC_6G-N-M	/	2025-02-23	2026-02-22
<input checked="" type="checkbox"/> Chamber C: Above 1GHz					
EMI Test Receiver	Rohde & Schwarz	ESIB 26	100401	2025-02-23	2026-02-22
Horn Antenna	POAM	RTF-118A	1820	2025-06-13	2027-06-12
Amplifier	Tonscend	TAP01018050	AP22E806235	2025-02-23	2026-02-22
DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2024-03-17	2026-03-16
Pre-amplifier	Schwarzbeck	BBV 9721	9721-031	2025-02-23	2026-02-22
Coaxial Cable	/	RC-18G-N-M	/	2025-02-23	2026-02-22
Coaxial Cable	/	RC-18G-N-M	/	2025-02-23	2026-02-22
Coaxial Cable	/	RC-18G-N-M	/	2025-02-23	2026-02-22

Software List				
Description	Manufacturer	Model	Version	
EMI Test Software (Radiated Emission A)	Farad	EZ-EMC	RA-03A1 (1.1.4.2)	
EMI Test Software (Radiated Emission B)	Farad	EZ-EMC	RA-03A1 (1.1.4.2)	
EMI Test Software (Radiated Emission C)	Farad	EZ-EMC	RA-03A1-2 (1.1.4.2)	
RF Test System	Tonscend-	JS1120-3	V3.5.39	
RF Test System	Ascentest	AT890	V3.0	

\*Remark: indicates software version used in the compliance certification testing



## 2. SUMMARY OF TEST RESULTS

Standards	Reference	Description of Test Item	Result
EN 300 328	4.3.1.2 / 4.3.2.2	RF Output Power	Passed
	4.3.2.3	Power Spectral Density	Passed
	4.3.1.3 / 4.3.2.4	Duty Cycle, Tx-sequence, Tx-gap	N/A
	4.3.1.4	Accumulated Transmit Time, Frequency Occupation and Hopping Sequence	N/A
	4.3.1.5	Hopping Frequency Separation	N/A
	4.3.1.6 / 4.3.2.5	Medium Utilisation (MU) Factor	N/A
	4.3.1.7 / 4.3.2.6	Adaptivity (Adaptive Frequency Hopping)	N/A
	4.3.1.8 / 4.3.2.7	Occupied Channel Bandwidth	Passed
	4.3.1.9 / 4.3.2.8	Transmitter Unwanted Emissions in the Out-of-band Domain	Passed
	4.3.1.10 / 4.3.2.9	Transmitter Unwanted Emissions in the Spurious Domain	Passed
	4.3.1.11 / 4.3.2.10	Receiver Spurious Emissions	Passed
	4.3.1.12 / 4.3.2.11	Receiver Blocking	Passed
	4.3.1.13 / 4.3.2.12	Geo-location capability	N/A

Passed: The EUT complies with the essential requirements in the standard.

Failed: The EUT does not comply with the essential requirements in the standard.

N/A: Not applicable.



## 3. RF Output Power

### 3.1 Standard Applicable

According to Section 4.3.1.2.3, the maximum RF output power for adaptive Frequency Hopping equipment shall be equal to or less than 20 dBm. The maximum RF output power for non-adaptive Frequency Hopping equipment, shall be declared by the supplier. The maximum RF output power for this equipment shall be equal to or less than the value declared by the supplier. This declared value shall be equal to or less than 20 dBm.

According to Section 4.3.2.2.3, for adaptive equipment using wide band modulations other than FHSS, the maximum RF output power shall be 20 dBm. The maximum RF output power for non-adaptive equipment shall be declared by the supplier and shall not exceed 20 dBm. For non-adaptive equipment using wide band modulations other than FHSS, the maximum RF output power shall be equal to or less than the value declared by the supplier.

This limit shall apply for any combination of power level and intended antenna assembly.

### 3.2 Test Procedure

According to section 5.4.2.2.1.2 of the standard EN 300328, the test procedure shall be as follows:

#### Step 1:

- Use a fast power sensor suitable for 2.4GHz and capable of 1 MS/s.
- Use the following settings: - Sample speed 1 MS/s or faster.
  - The samples must represent the power of the signal.
  - Measurement duration: For non-adaptive equipment: equal to the observation period defined in clauses 4.3.1.3.2 or clause 4.3.2.4.2. For adaptive equipment, the measurement duration shall be long enough to ensure a minimum number of bursts (at least 10) are captured.

NOTE 1: For adaptive equipment, to increase the measurement accuracy, a higher number of bursts may be used.

#### Step 2:

- For conducted measurements on devices with one transmit chain:
  - Connect the power sensor to the transmit port, sample the transmit signal and store the raw data. Use these stored samples in all following steps.
- For conducted measurements on devices with multiple transmit chains:
  - Connect one power sensor to each transmit port for a synchronous measurement on all transmit ports.
  - Trigger the power sensors so that they start sampling at the same time. Make sure the time difference between the samples of all sensors is less than half the time between two samples.
  - For each individual sampling point (time domain), sum the coincident power samples of all ports and store them. Use these summed samples in all following steps..

**Step 3:**

- Find the start and stop times of each burst in the stored measurement samples.

The start and stop times are defined as the points where the power is at least 30 dB below the highest value of the stored samples in step 2.

NOTE 2: In case of insufficient dynamic range, the value of 30 dB may need to be reduced appropriately.

**Step 4:**

- Between the start and stop times of each individual burst calculate the RMS power over the burst using the formula below. Save these Pburst values, as well as the start and stop times for each burst.

$$P_{burst} = \frac{1}{k} \sum_{n=1}^k P_{sample}(n)$$

with 'k' being the total number of samples and 'n' the actual sample number

**Step 5:**

- The highest of all Pburst values (value "A" in dBm) will be used for maximum e.i.r.p. calculations.

**Step 6:**

- Add the (stated) antenna assembly gain "G" in dBi of the individual antenna.
- If applicable, add the additional beamforming gain "Y" in dB.
- If more than one antenna assembly is intended for this power setting, the maximum overall antenna gain (G or G + Y) shall be used.
- The RF Output Power (P) shall be calculated using the formula below:  $P = A + G + Y$
- This value, which shall comply with the limit given in clause 4.3.1.2.3 or clause 4.3.2.2.3, shall be recorded in the test report.

### 3.3 Summary of Test Results



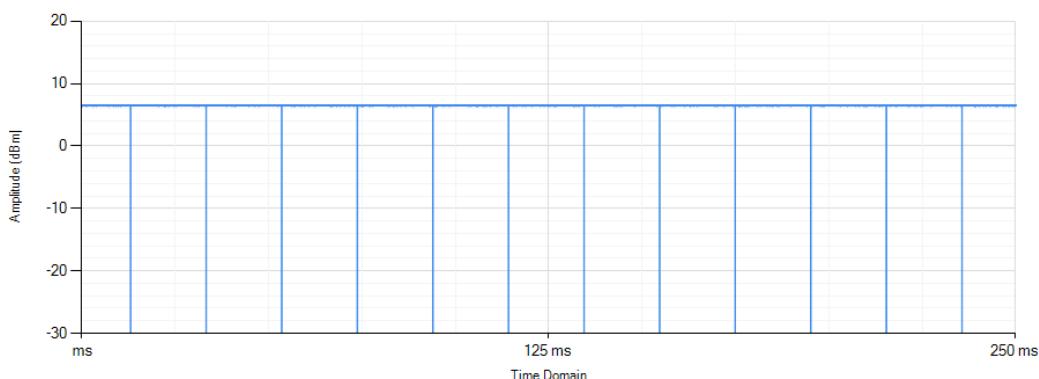
Test conditions	Channel	EIRP (dBm)	Limit (dBm)	Result
NTNV	Low	6.48	20.00	Pass
	Middle	6.25		
	High	7.03		
LTNV	Low	6.42	20.00	Pass
	Middle	6.20		
	High	7.00		
HTNV	Low	6.46	20.00	Pass
	Middle	6.21		
	High	6.98		

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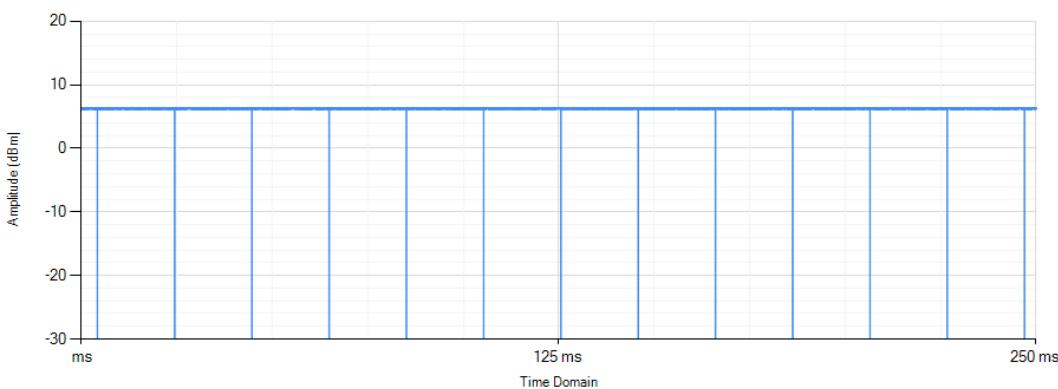
### Low Channel

RF Output Power



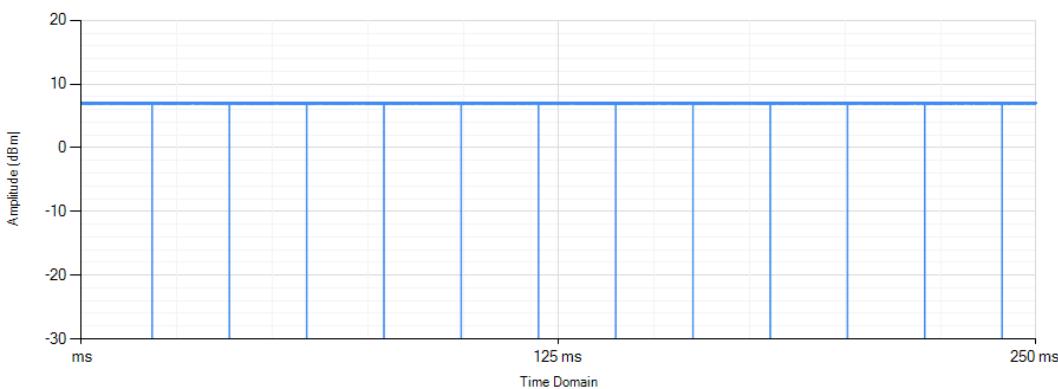
### Middle Channel

RF Output Power



### High Channel

RF Output Power





## 4. Power Spectral Density

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### 4.1 Standard Applicable

According to Section 4.3.2.3.3, For equipment using wide band modulations other than FHSS, the maximum Power Spectral Density is limited to 10 dBm per MHz.

### 4.2 Test Procedure

According to section 5.4.3.2.1 of the standard EN 300328, the test procedure shall be as follows:

#### Step 1:

Connect the UUT to the spectrum analyser and use the following settings:

- Start Frequency: 2400MHz
- Stop Frequency: 2483.5MHz
- Resolution BW: 10kHz
- Video BW: 30kHz
- Sweep Points: > 8350

NOTE: For spectrum analysers not supporting this number of sweep points, the frequency band may be segmented.

- Detector: RMS
- Trace Mode: Max Hold
- Sweep time: 10 s; the sweep time may be increased further until a value where the sweep time has no impact on the RMS value of the signal

For non-continuous signals, wait for the trace to stabilize.

Save the data (trace data) set to a file.

#### Step 2:

For conducted measurements on smart antenna systems using either operating mode 2 or operating mode 3 (see clause 5.1.3.2), repeat the measurement for each of the transmit ports. For each sampling point (frequency domain), add up the coincident power values (in mW) for the different transmit chains and use this as the new data set.

#### Step 3:

Add up the values for power for all the samples in the file using the formula below.

$$P_{Sum} = \sum_{n=1}^k P_{sample}(n)$$

with 'k' being the total number of samples and 'n' the actual sample number

#### Step 4:

Normalize the individual values for power (in dBm) so that the sum is equal to the RF Output Power (e.i.r.p.) measured in clause 5.3.2 and save the corrected data. The following formulas can be used:

$$C_{Corr} = P_{Sum} - P_{e.i.r.p.}$$

$$P_{Samplecorr}(n) = P_{Sample}(n) - C_{Corr}$$



with 'n' being the actual sample number

#### **Step 5:**

Starting from the first sample  $P_{\text{Samplecorr}}(n)$  (lowest frequency), add up the power (in mW) of the following samples representing a 1 MHz segment and record the results for power and position (i.e. sample #1 to sample #100). This is the Power Spectral Density (e.i.r.p.) for the first 1 MHz segment which shall be recorded.

#### **Step 6:**

Shift the start point of the samples added up in step 5 by one sample and repeat the procedure in step 5 (i.e. sample #2 to sample #101).

#### **Step 7:**

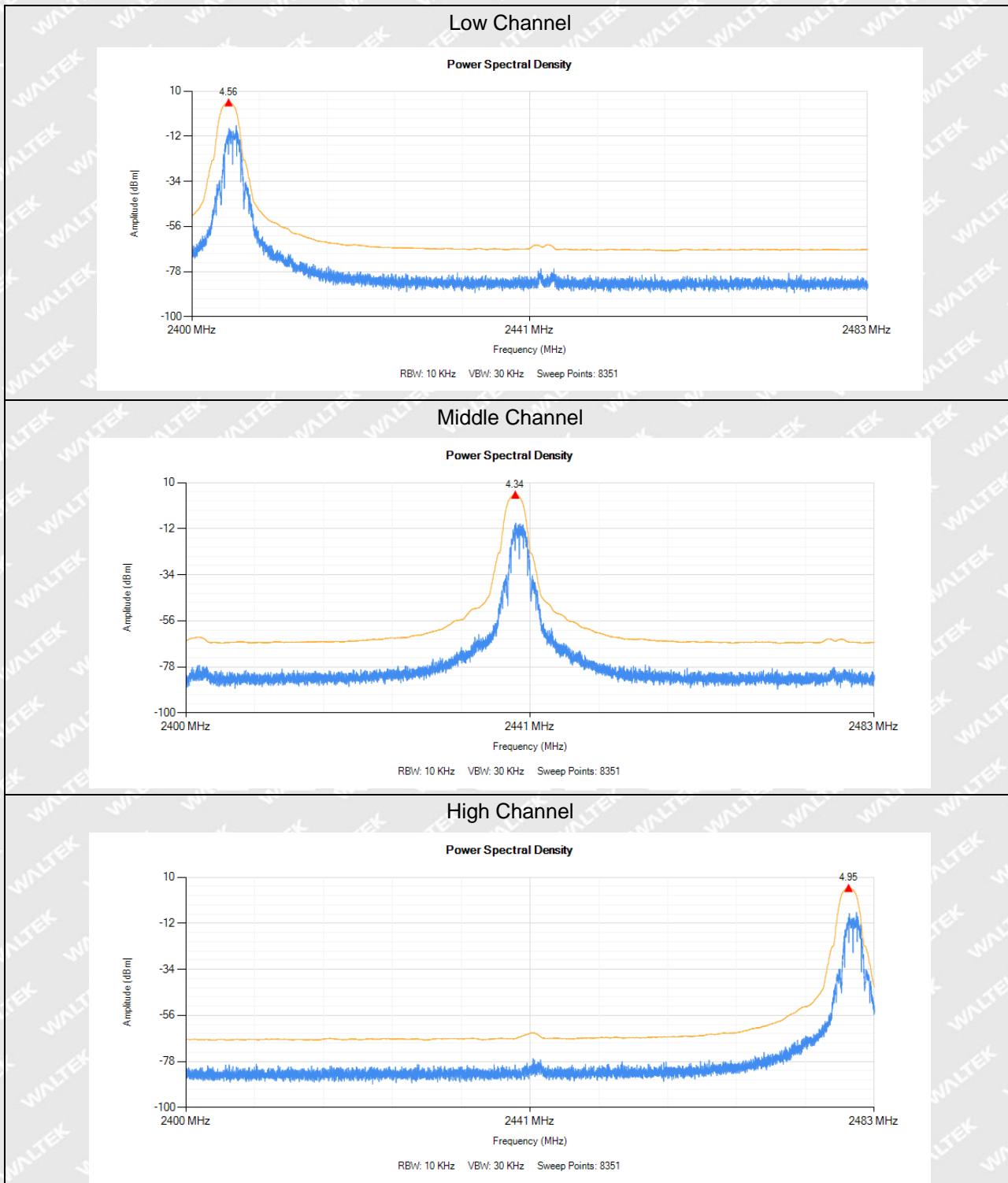
Repeat step 6 until the end of the data set and record the Power Spectral Density values for each of the 1 MHz segments.

From all the recorded results, the highest value is the maximum Power Spectral Density for the UUT. This value, which shall comply with the limit given in clause 4.3.2.3.3, shall be recorded in the test report.

RBW/VBW=10/30 kHz

### **4.3 Summary of Test Results**

<b>Test Mode</b>	<b>Test Frequency</b>	<b>Spectral Density</b>	<b>Limit</b>
	<b>MHz</b>	<b>dBm/MHz</b>	<b>dBm/MHz</b>
Thread	2405	4.56	10
	2440	4.34	10
	2480	4.95	10





## 5. Occupied Channel Bandwidth

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### 5.1 Standard Application

According to section 4.3.1.8.3, the Occupied Channel Bandwidth for each hopping frequency shall fall completely within the band given in clause 1.

For non-adaptive Frequency Hopping equipment with e.i.r.p greater than 10 dBm, the Occupied Channel Bandwidth for every occupied hopping frequency shall be equal to or less than the value declared by the supplier. This declared value shall not be greater than 5 MHz.

According to section 4.3.2.7.3, the Occupied Channel Bandwidth shall fall completely within the band given in clause 1. In addition, for non-adaptive systems using wide band modulations other than FHSS and with e.i.r.p greater than 10 dBm, the occupied channel bandwidth shall be less than 20MHz.

### 5.2 Test procedure

According to the section 5.4.7.2.1, the measurement procedure shall be as follows:

**Step 1:**

Connect the UUT to the spectrum analyser and use the following settings:

- Centre Frequency: The centre frequency of the channel under test
- Resolution BW: ~ 1 % of the span without going below 1 %
- Video BW:  $3 \times$  RBW
- Frequency Span for frequency hopping equipment: Lowest frequency separation that is used within the hopping sequence
- Frequency Span for other types of equipment:  $2 \times$  Nominal Channel Bandwidth (e.g. 40 MHz for a 20 MHz channel)
- Detector Mode: RMS
- Trace Mode: Max Hold
- Sweep time: 1 s

**Step 2:**

Wait until the trace is completed.

Find the peak value of the trace and place the analyser marker on this peak.

**Step 3:**

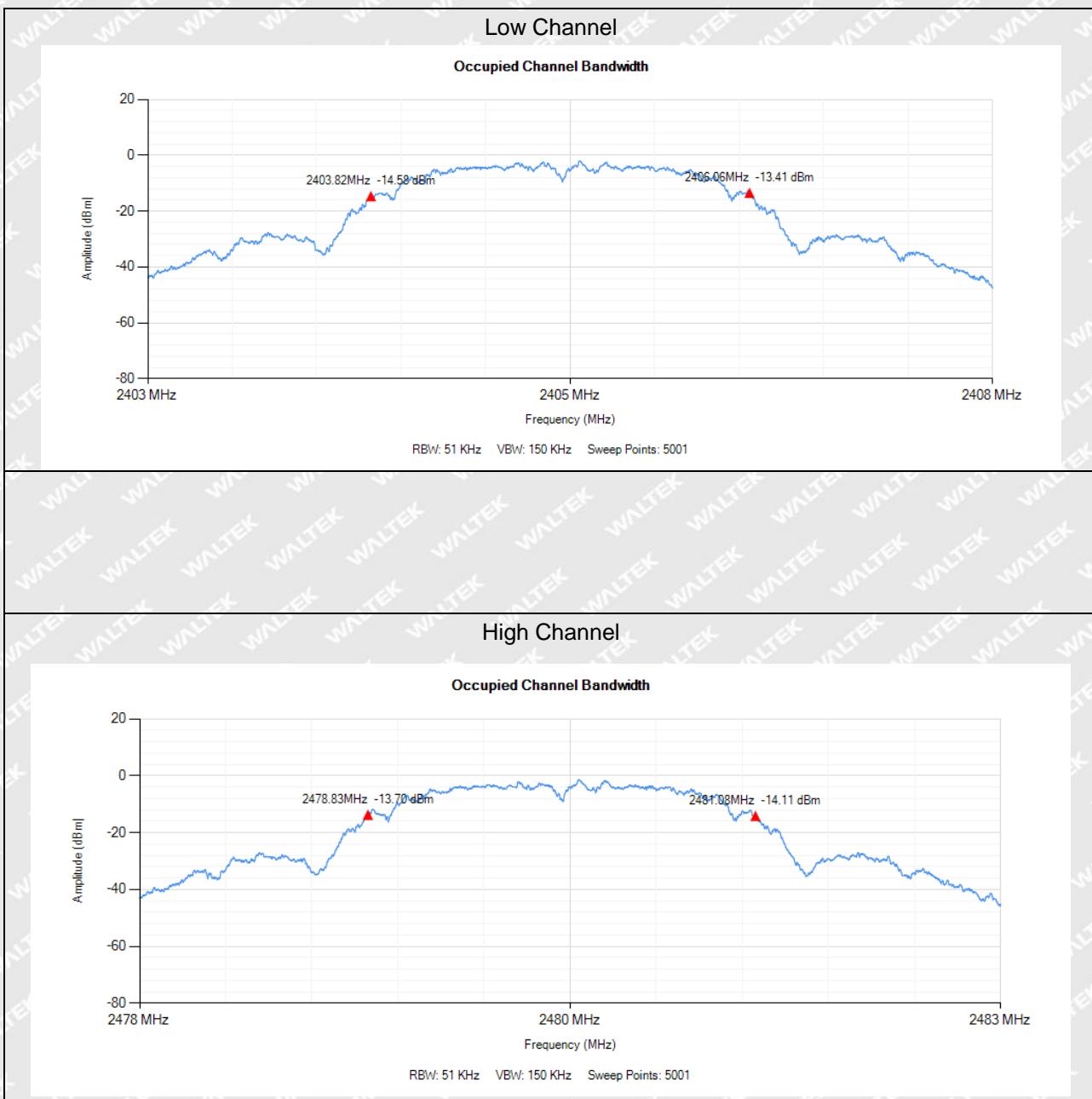
Use the 99 % bandwidth function of the spectrum analyser to measure the Occupied Channel Bandwidth of the UUT. This value shall be recorded.

### 5.3 Summary of Test Results/Plots



Mode	Channel	Measured Frequency (MHz)		Limit (MHz)	Result
		Low	High		
Thread	Low	2403.82	2406.06	2400.00~2483.50	Pass
	High	2478.83	2481.08		

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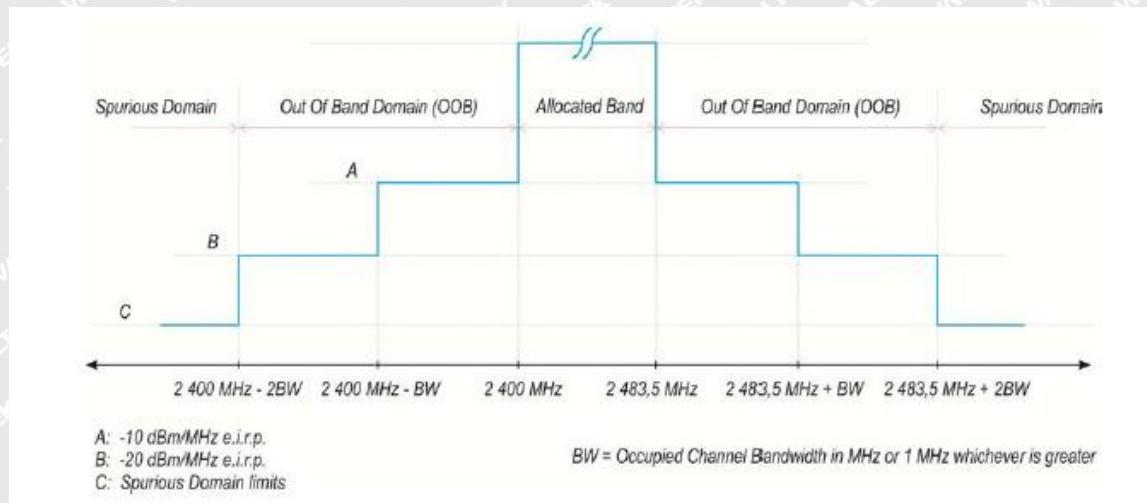




## 6. Transmitter Unwanted Emissions in the Out-of-band Domain

### 6.1 Standard Application

According to section 4.3.1.9.3&4.3.2.8.3, the transmitter unwanted emissions in the out-of-band domain but outside the allocated band, shall not exceed the values provided by the mask in figure below:



Within the 2400MHz to 2483.5MHz band, the Out-of-band emissions are fulfilled by compliance with the Occupied Channel Bandwidth requirement

### 6.2 Test procedure

According to the section 5.4.8.2.1, the measurement procedure shall be as follows:

The Out-of-band emissions within the different horizontal segments of the mask provided in figures 1 and 3 shall be measured using the steps below. This method assumes the spectrum analyser is equipped with the Time Domain Power option.

#### Step 1:

- Connect the UUT to the spectrum analyser and use the following settings:
- Centre Frequency: 2484MHz
- Span: 0Hz
- Resolution BW: 1MHz
- Filter mode: Channel filter
- Video BW: 3MHz
- Detector Mode: RMS
- Trace Mode: Max Hold
- Sweep Mode: Continuous
- Sweep Points: Sweep Time [s] / (1  $\mu$  s) or 5 000 whichever is greater
- Trigger Mode: Video trigger

NOTE 1: In case video triggering is not possible, an external trigger source may be used.



Reference No.: WTX25X06169770W003

- Sweep Time: > 120 % of the duration of the longest burst detected during the measurement of the RF Output Power

**Step 2:** (segment 2483.5MHz to 2483.5MHz + BW)

- Adjust the trigger level to select the transmissions with the highest power level.
- For frequency hopping equipment operating in a normal hopping mode, the different hops will result in signal bursts with different power levels. In this case the burst with the highest power level shall be selected.
- Set a window (start and stop lines) to match with the start and end of the burst and in which the RMS power shall be measured using the Time Domain Power function.
- Select RMS power to be measured within the selected window and note the result which is the RMS power within this 1 MHz segment (2 483.5MHz to 2 484.5MHz). Compare this value with the applicable limit provided by the mask.
- Increase the centre frequency in steps of 1 MHz and repeat this measurement for every 1MHz segment within the range 2483.5MHz to 2483.5MHz + BW. The centre frequency of the last 1MHz segment shall be set to 2 483.5MHz + BW – 0.5MHz (which means this may partly overlap with the previous 1MHz segment).

**Step 3:** (segment 2 483.5 MHz + BW to 2 483.5 MHz + 2BW)

- Change the centre frequency of the analyser to 2 484 MHz + BW and perform the measurement for the first 1 MHz segment within range 2 483.5 MHz + BW to 2 483.5 MHz + 2BW. Increase the centre frequency in 1 MHz steps and repeat the measurements to cover this whole range. The centre frequency of the last 1 MHz segment shall be set to 2 483.5 MHz + 2 BW – 0.5MHz.

**Step 4:** (segment 2400MHz - BW to 2400MHz)

- Change the centre frequency of the analyser to 2399.5MHz and perform the measurement for the first 1MHz segment within range 2400MHz - BW to 2400MHz. Reduce the centre frequency in 1 MHz steps and repeat the measurements to cover this whole range. The centre frequency of the last 1 MHz segment shall be set to 2 400MHz - 2BW + 0.5MHz.

**Step 5:** (segment 2400MHz - 2BW to 2400MHz - BW)

- Change the centre frequency of the analyser to 2 399.5 MHz - BW and perform the measurement for the first 1 MHz segment within range 2 400 MHz - 2BW to 2 400 MHz - BW. Reduce the centre frequency in 1 MHz steps and repeat the measurements to cover this whole range. The centre frequency of the last 1 MHz segment shall be set to 2 400 MHz - 2BW + 0.5 MHz.

**Step 6:**

- In case of conducted measurements on equipment with a single transmit chain, the declared antenna assembly gain "G" in dBi shall be added to the results for each of the 1 MHz segments and compared with the limits provided by the mask given in figure 1 or figure 3. If more than one antenna assembly is intended for this power setting, the antenna with the highest gain shall be considered.
- In case of conducted measurements on smart antenna systems (equipment with multiple transmit chains), the measurements need to be repeated for each of the active transmit chains. The declared antenna assembly gain "G" in dBi for a single antenna shall be added to these results. If more than one antenna assembly is intended for this power setting, the antenna with the highest gain shall be considered.



Comparison with the applicable limits shall be done using any of the options given below:

- Option 1: the results for each of the transmit chains for the corresponding 1 MHz segments shall be added. The additional beamforming gain "Y" in dB shall be added as well and the resulting values compared with the limits provided by the mask given in figure 1 or figure 3.

NOTE 2: A ch refers to the number of active transmit chains.

It shall be recorded whether the equipment complies with the mask provided in figure 1 or figure 3.

RBW=1MHz VBW=3MHz

### 6.3 Summary of Test Results/Plots

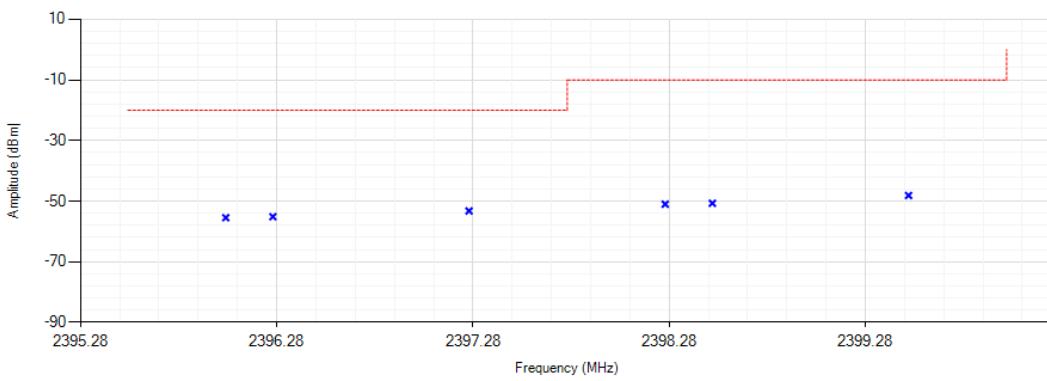
Test CH.	Test Segment	Max. Emissions Reading (dBm)		Limit
		MHz	Normal	
<b>Test Mode: Thread</b>				
Low	2400-BW to 2400	-48.10	-10	
	2400-2BW to 2400-BW	-53.21	-20	
High	2483.5 to 2483.5+BW	-42.42	-10	
	2483.5+BW to 2483.5+2BW	-49.26	-20	

Note 1: BW please refer to section 7.3

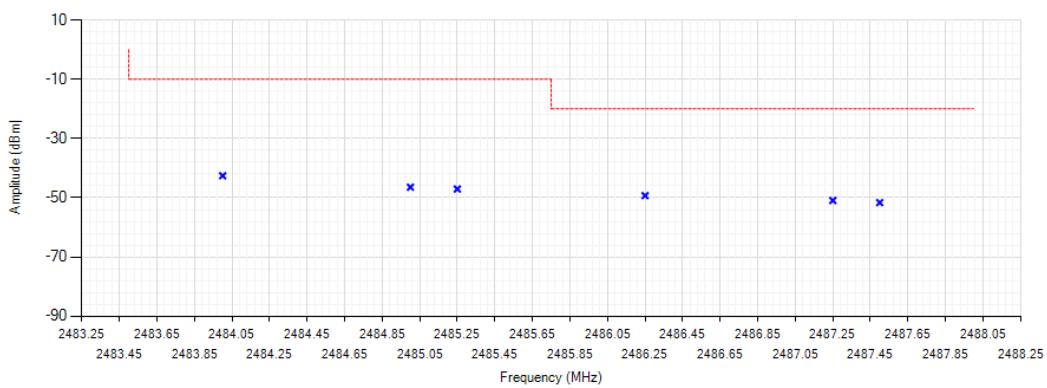
Note 2: the data just list the worst cases



### Low Channel

**Transmitter unwanted emissions in the out-of-band domain**

### High Channel

**Transmitter unwanted emissions in the out-of-band domain**



## 7. Transmitter Unwanted Emissions in the Spurious Domain

### 7.1 Standard Applicable

According to section 4.3.1.10.3& 4.3.2.9.3, the transmitter unwanted emissions in the spurious domain shall not exceed the values given in the following table.

Transmitter limit for spurious emissions

Frequency range	Maximum power	Bandwidth
30MHz to 47MHz	-36dBm	100kHz
47MHz to 74MHz	-54dBm	100kHz
74MHz to 87.5MHz	-36dBm	100kHz
87.5MHz to 118MHz	-54dBm	100kHz
118MHz to 174MHz	-36dBm	100kHz
174MHz to 230MHz	-54dBm	100kHz
230MHz to 470MHz	-36dBm	100kHz
470MHz to 694MHz	-54dBm	100kHz
694MHz to 1GHz	-36dBm	100kHz
1GHz to 12.75GHz	-30dBm	1MHz

### 7.2 Test Procedure

The device under test has an integral antenna and the radiated measurement shall apply to the device, using the method of measurement as described in the EN300328 section 5.4.9.2

RBW=100kHz      VBW=300kHz      30MHz-1GHz  
 RBW=1MHz      VBW=3MHz      1GHz-12.75GHz

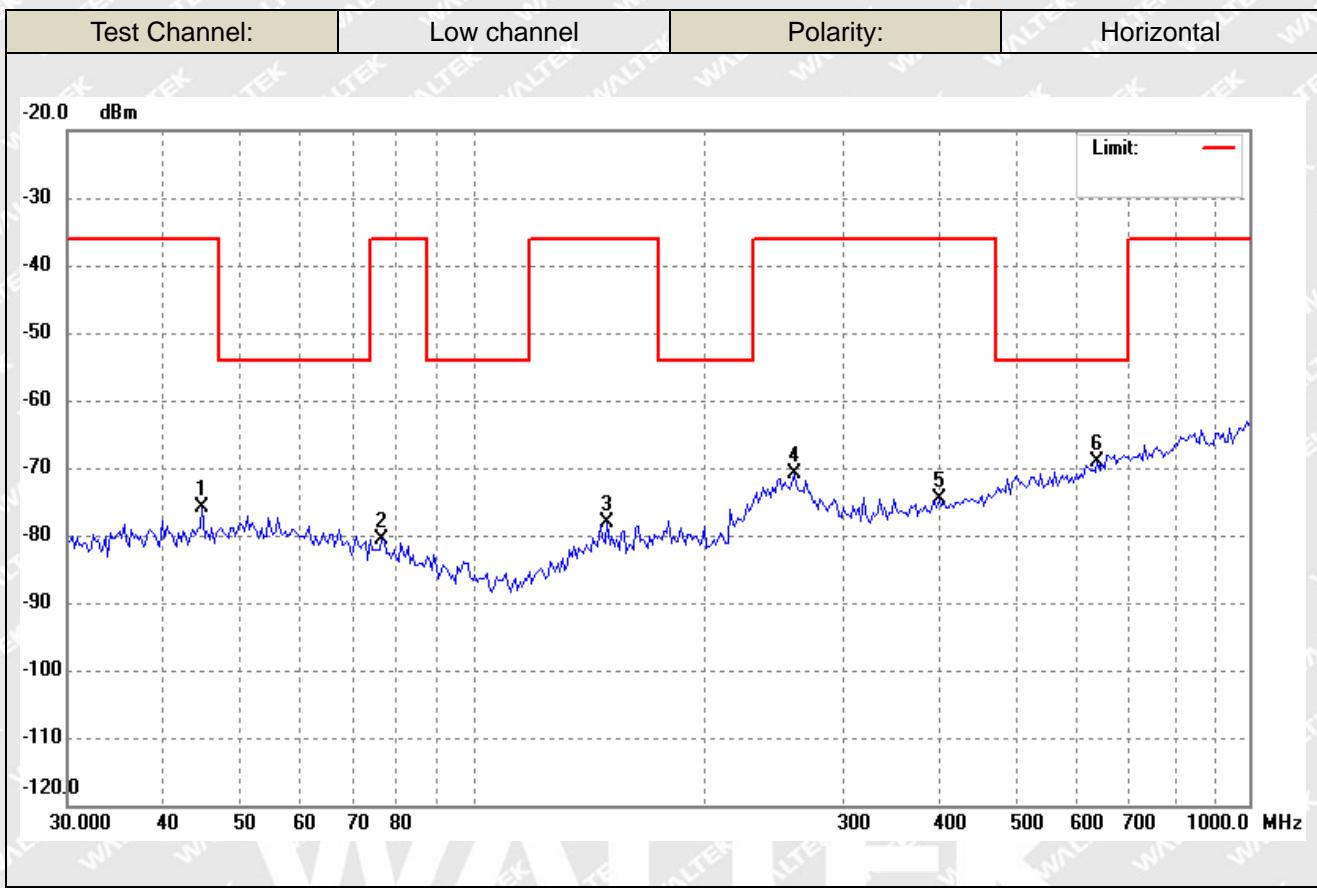
### 7.3 Summary of Test Results/Plots

According to the data, the EUT complied with the EN 300328 standards, and had the worst cases:

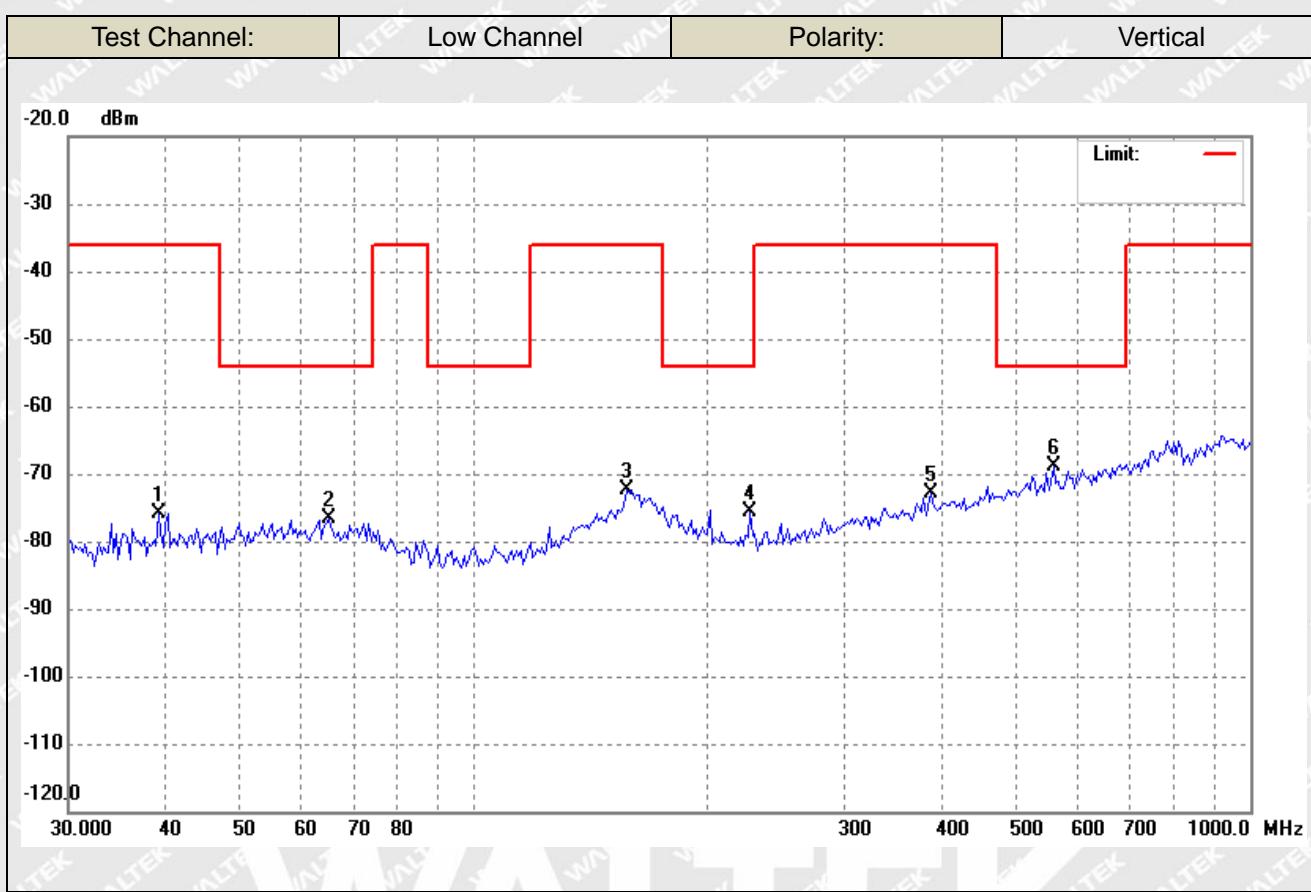


## ➤ Spurious Emission From 30MHz To 1GHz

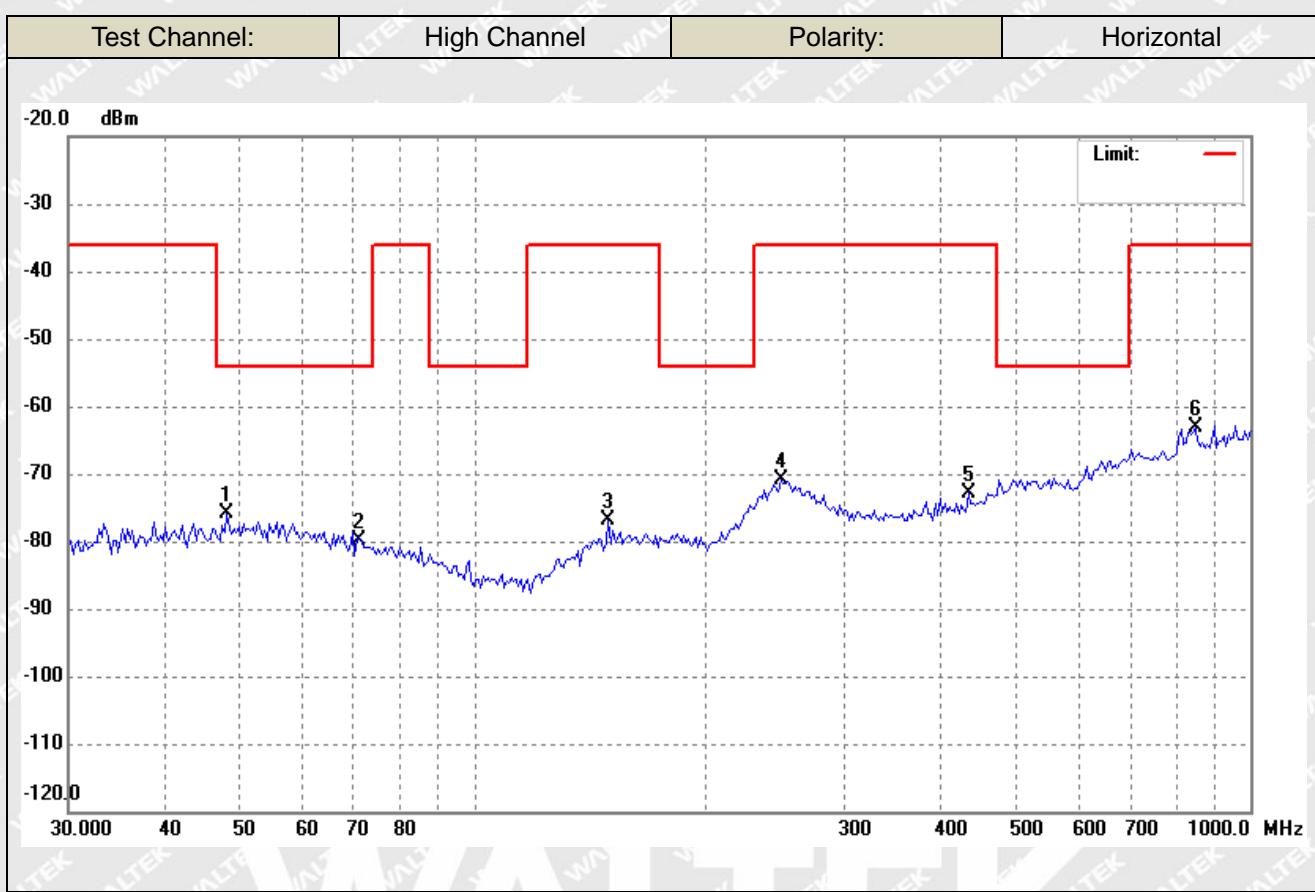
For Thread



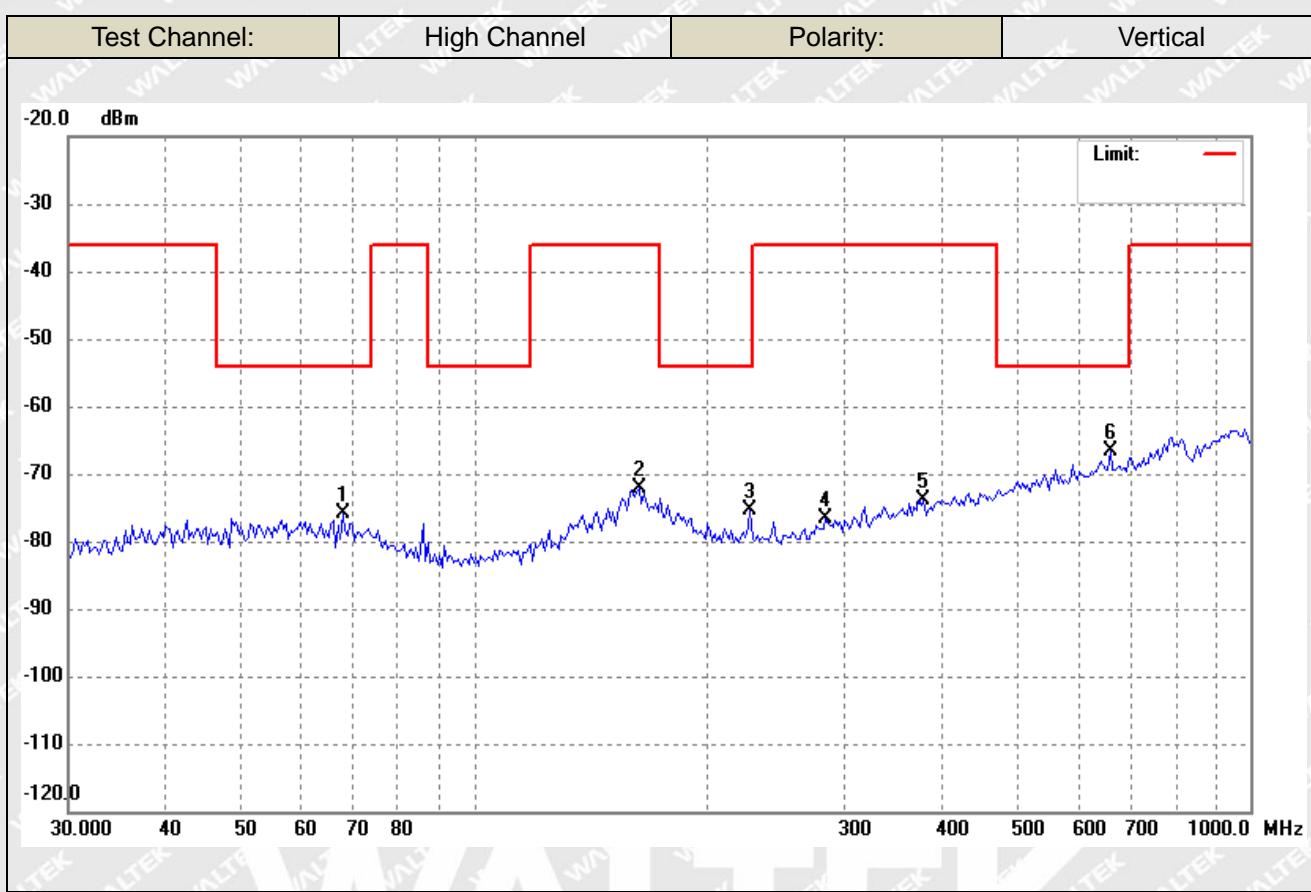
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	44.7793	-78.83	3.00	-75.83	-36.00	-39.83	ERP
2	76.3869	-80.47	-0.05	-80.52	-36.00	-44.52	ERP
3	148.9175	-78.81	0.75	-78.06	-36.00	-42.06	ERP
4	259.4434	-78.59	7.76	-70.83	-36.00	-34.83	ERP
5	398.2962	-79.27	4.64	-74.63	-36.00	-38.63	ERP
6	637.7947	-78.31	9.25	-69.06	-54.00	-15.06	ERP



No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	39.1825	-78.29	2.47	-75.82	-36.00	-39.82	ERP
2	64.9869	-79.75	3.19	-76.56	-54.00	-22.56	ERP
3	157.5290	-79.35	6.95	-72.40	-36.00	-36.40	ERP
4	227.0164	-76.71	1.03	-75.68	-54.00	-21.68	ERP
5	387.2565	-77.98	5.11	-72.87	-36.00	-36.87	ERP
6	558.0788	-76.94	8.13	-68.81	-54.00	-14.81	ERP



No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	48.0392	-79.25	3.31	-75.94	-54.00	-21.94	ERP
2	71.7054	-80.67	0.77	-79.90	-54.00	-25.90	ERP
3	148.9175	-77.74	0.75	-76.99	-36.00	-40.99	ERP
4	248.7319	-79.24	8.33	-70.91	-36.00	-34.91	ERP
5	433.3397	-78.35	5.52	-72.83	-36.00	-36.83	ERP
6	850.7603	-76.79	13.61	-63.18	-36.00	-27.18	ERP



No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	67.7856	-79.02	3.14	-75.88	-54.00	-21.88	ERP
2	163.1623	-79.58	7.37	-72.21	-36.00	-36.21	ERP
3	227.0164	-76.28	1.03	-75.25	-54.00	-21.25	ERP
4	284.2607	-79.19	2.54	-76.65	-36.00	-40.65	ERP
5	379.1780	-78.76	4.94	-73.82	-36.00	-37.82	ERP
6	660.6025	-76.13	9.59	-66.54	-54.00	-12.54	ERP



## ➤ Spurious Emission Above 1GHz

For Thread

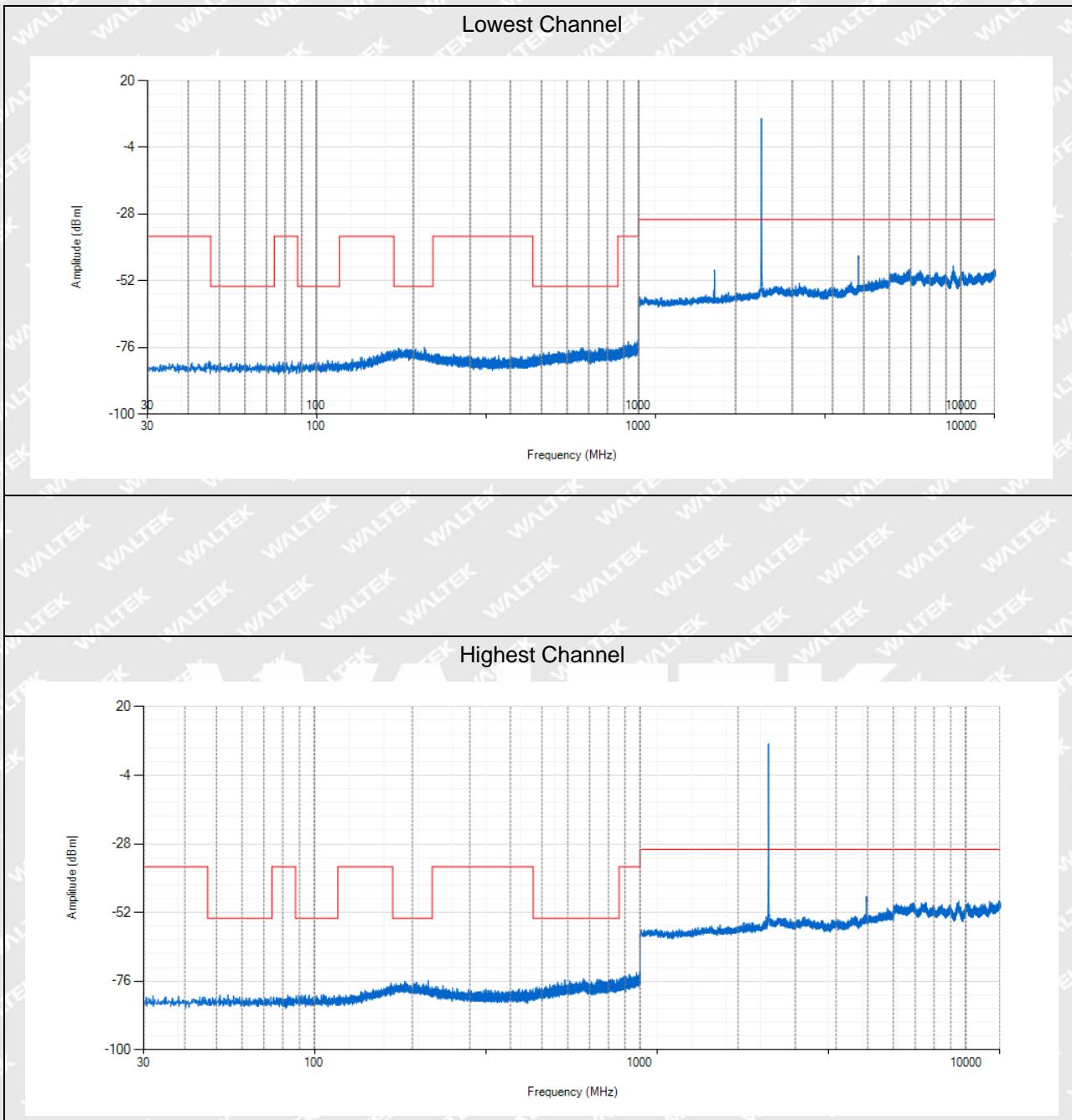
Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Polar H/V
Low Channel-2402MHz						
4810	-50.83	5.67	-45.16	-30	-15.16	H
7215	-57.61	10.16	-47.45	-30	-17.45	H
4810	-54.85	5.67	-49.18	-30	-19.18	V
7215	-55.53	10.16	-45.37	-30	-15.37	V
High Channel-2480MHz						
4960	-56.32	6.09	-50.23	-30	-20.23	H
7440	-57.23	10.28	-46.95	-30	-16.95	H
4960	-56.41	6.09	-50.32	-30	-20.32	V
7440	-59.76	10.28	-49.48	-30	-19.48	V

Note 1: Testing is carried out with frequency rang 30MHz to 12.75GHz, which above 4<sup>th</sup> Harmonics are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

Note 2: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.



➤ **Conducted Transmitter Spurious Emission:**



Note 1: Testing is carried out with frequency rang 30MHz to 12.75GHz, which emissions are too small are not list above.



## 8. Receiver Spurious Emissions

### 8.1 Standard Applicable

According to section 4.3.1.11.3&4.3.2.10.3, the spurious emissions of the receiver shall not exceed the values given in table below:

NOTE: In case of equipment with antenna connectors, these limits apply to emissions at the antenna port (conducted) and to the emissions radiated by the cabinet. In case of integral antenna equipment (without temporary antenna connectors), these limits apply to emissions radiated by the equipment. Spurious emission limits for receivers

Frequency range	Maximum power	Bandwidth
30MHz to 1GHz	-57dBm	100kHz
1GHz to 12.75GHz	-47dBm	1MHz

### 8.2 Test Procedure

The device under test has an integral antenna and the radiated measurement shall apply to the device, using the method of measurement as described in the EN300328 section 5.4.10.2.

RBW=100kHz VBW=300kHz 30MHz-1GHz

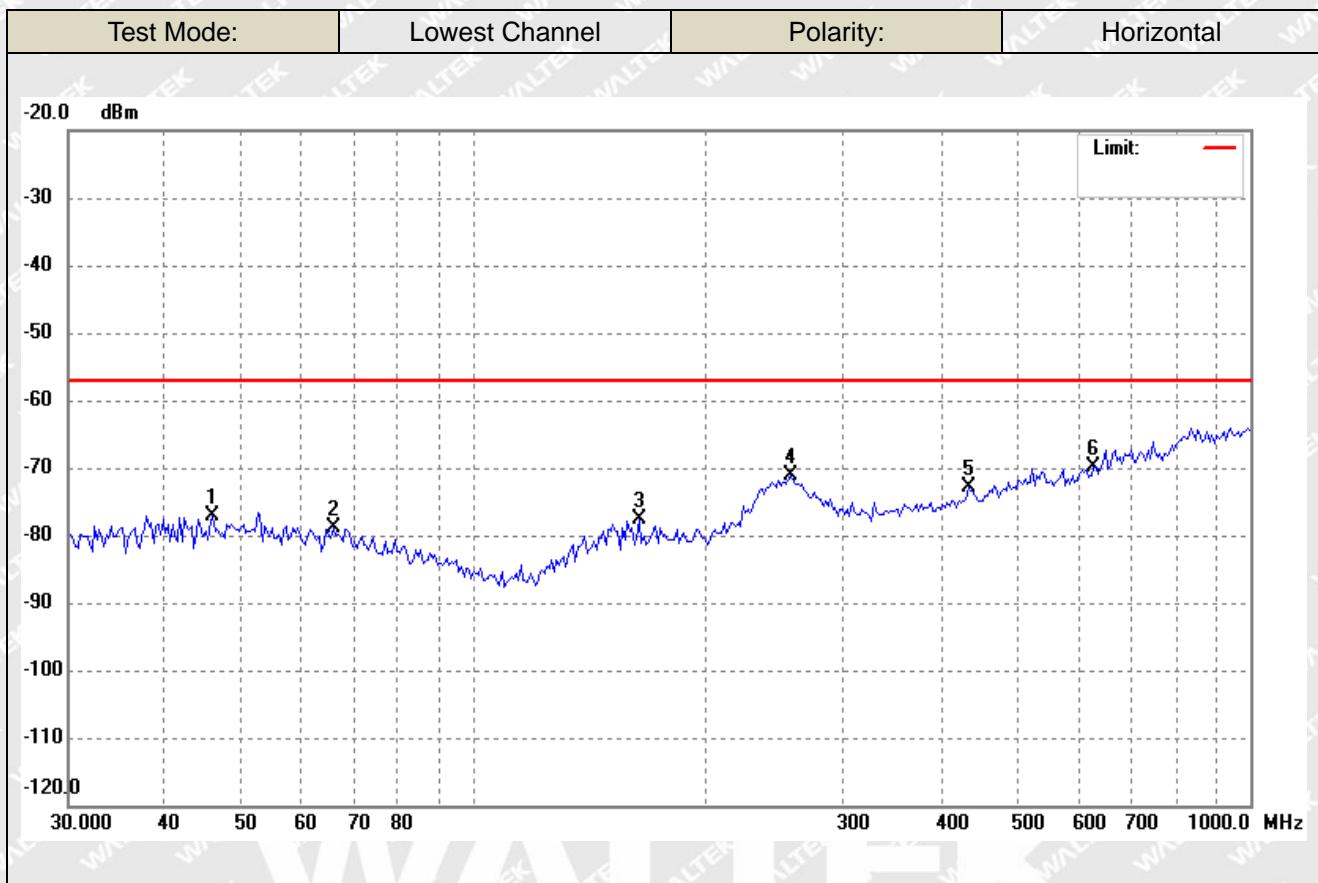
RBW=1MHz VBW=3MHz 1GHz-12.75GHz

### 8.3 Summary of Test Results/Plots

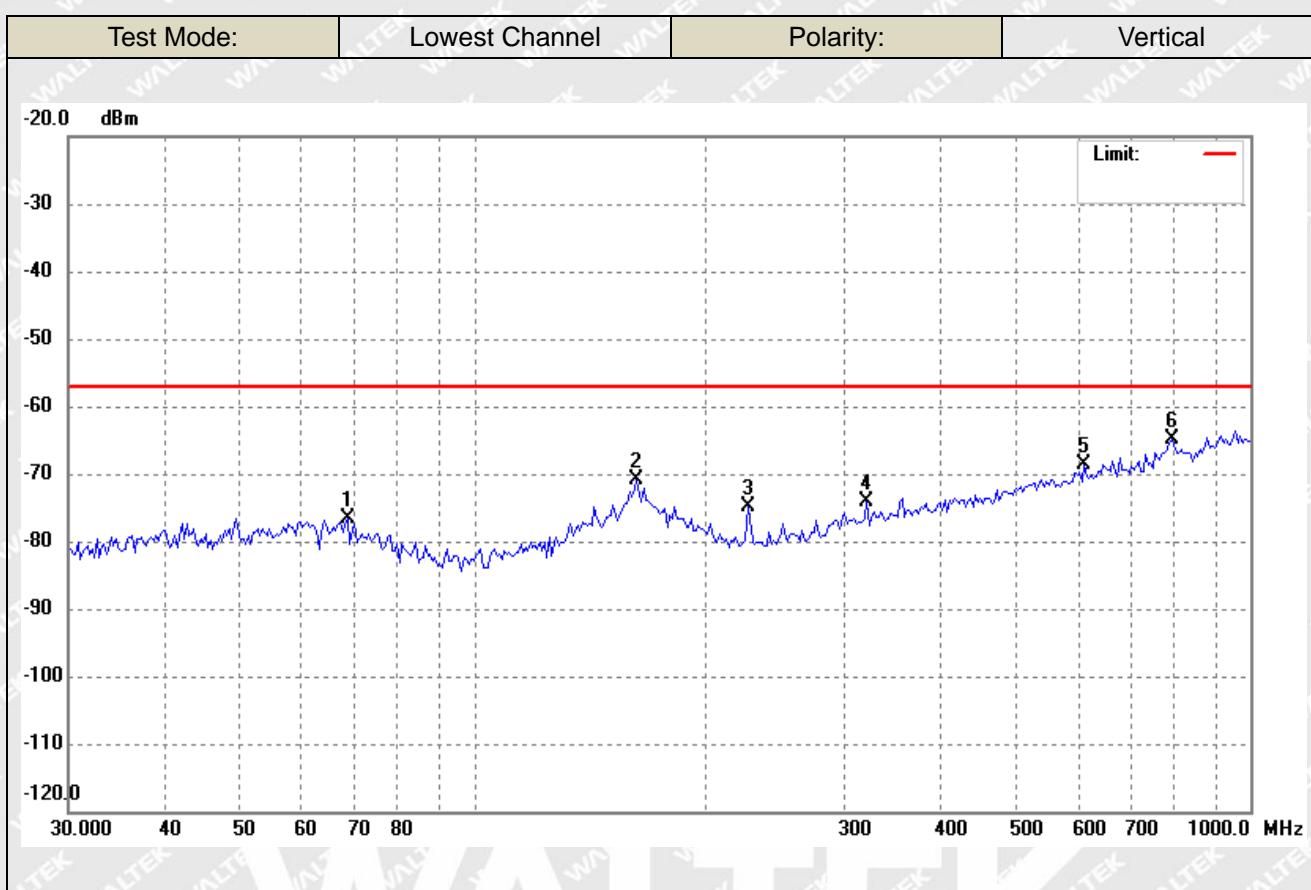
According to the data, the EUT complied with the EN 300328 standards, and had the worst case:



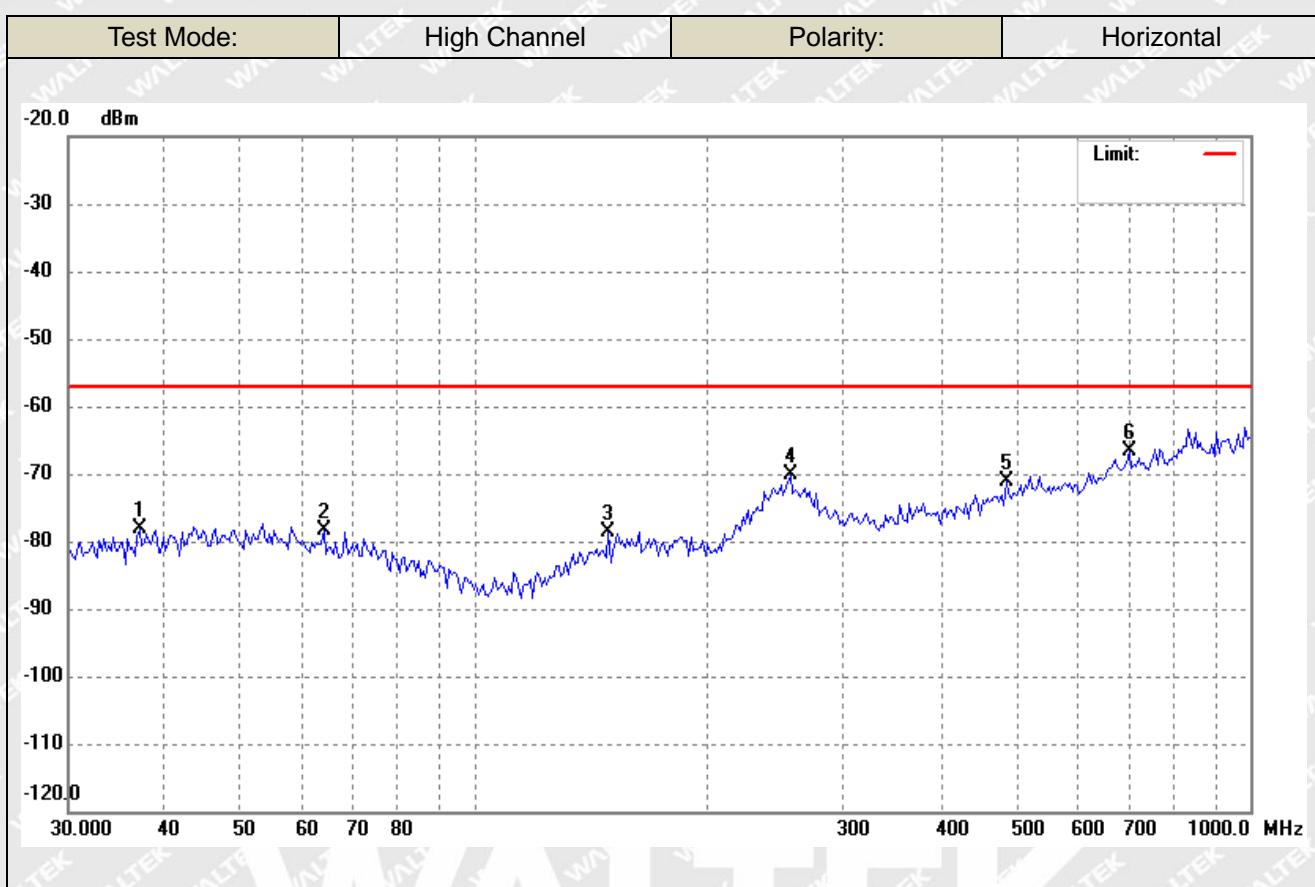
## ➤ Receiver Spurious Emission From 30MHz To 1GHz



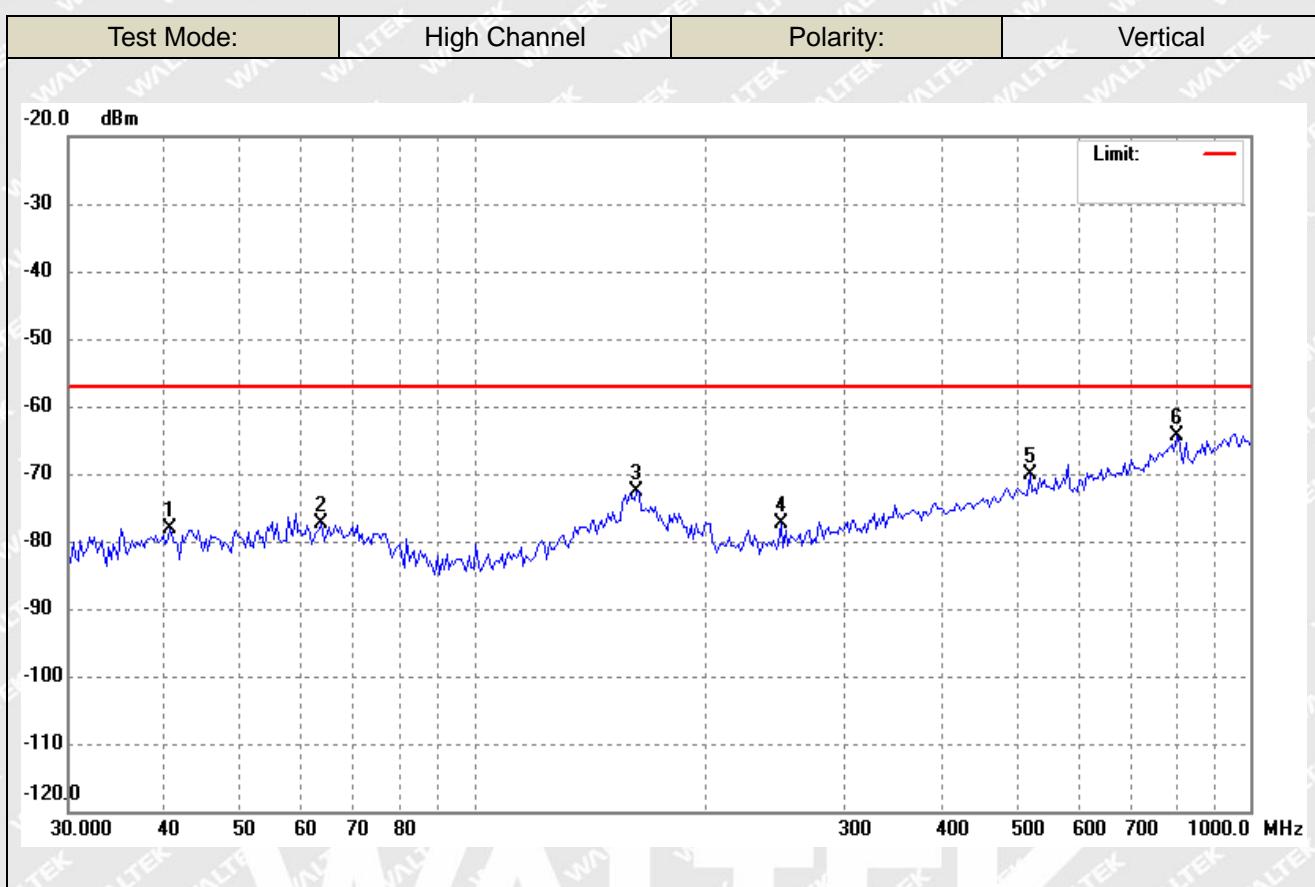
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	46.0558	-80.27	3.13	-77.14	-57.00	-20.14	ERP
2	65.9067	-80.32	1.57	-78.75	-57.00	-21.75	ERP
3	163.1623	-78.60	0.98	-77.62	-57.00	-20.62	ERP
4	255.8226	-79.30	8.07	-71.23	-57.00	-14.23	ERP
5	433.3397	-78.33	5.52	-72.81	-57.00	-15.81	ERP
6	628.8936	-78.84	9.00	-69.84	-57.00	-12.84	ERP



No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	68.7450	-79.74	3.12	-76.62	-57.00	-19.62	ERP
2	162.0197	-78.34	7.57	-70.77	-57.00	-13.77	ERP
3	225.4267	-76.03	1.05	-74.98	-57.00	-17.98	ERP
4	320.3306	-77.87	3.73	-74.14	-57.00	-17.14	ERP
5	611.4623	-77.60	8.97	-68.63	-57.00	-11.63	ERP
6	793.0281	-77.30	12.48	-64.82	-57.00	-7.82	ERP



No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	37.0405	-80.37	2.27	-78.10	-57.00	-21.10	ERP
2	64.0800	-80.26	1.79	-78.47	-57.00	-21.47	ERP
3	148.9175	-79.37	0.75	-78.62	-57.00	-21.62	ERP
4	255.8226	-78.16	8.07	-70.09	-57.00	-13.09	ERP
5	484.9068	-77.94	6.89	-71.05	-57.00	-14.05	ERP
6	698.8035	-77.70	10.96	-66.74	-57.00	-9.74	ERP



No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	40.5837	-80.80	2.61	-78.19	-57.00	-21.19	ERP
2	63.6312	-80.65	3.22	-77.43	-57.00	-20.43	ERP
3	162.0197	-80.27	7.57	-72.70	-57.00	-15.70	ERP
4	248.7319	-78.31	0.87	-77.44	-57.00	-20.44	ERP
5	520.2079	-77.59	7.51	-70.08	-57.00	-13.08	ERP
6	804.2523	-76.88	12.43	-64.45	-57.00	-7.45	ERP



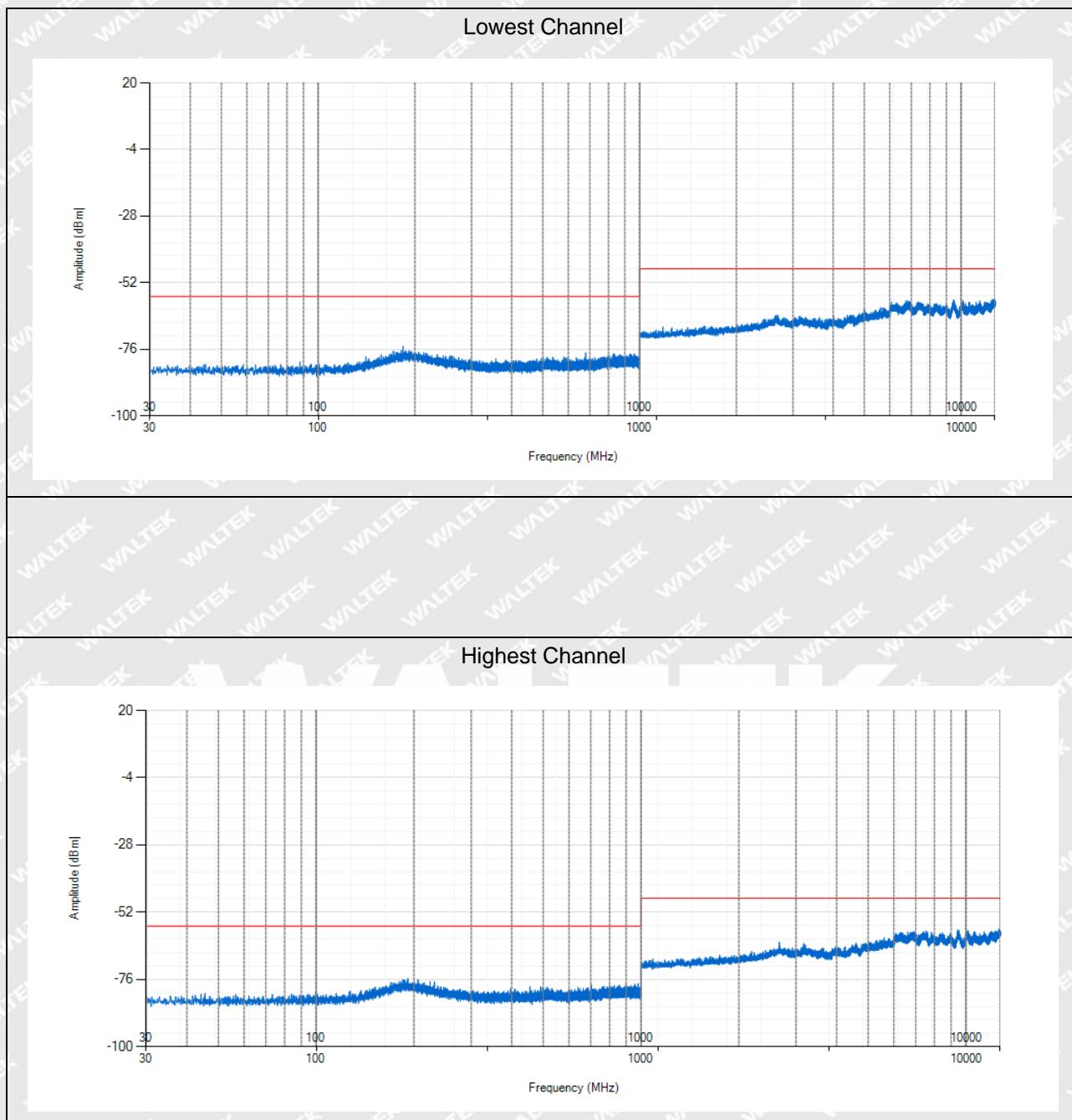
➤ Receiver Spurious Emission Above 1GHz

Thread Mode

Frequency (MHz)	Result (dBm)	Limit (dBm)	Margin (dB)	Polar
1726.18	-59.84	-47.00	-12.84	H/V
6362.35	-61.60	-47.00	-14.60	H
1776.82	-60.79	-47.00	-13.79	V
7234.50	-62.29	-47.00	-15.29	V

Note: Testing is carried out with frequency rang 30MHz to 12.75GHz, which above 1GHz are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

# WALTEK

**Conducted Receiver Spurious Emission:**

Note 1: Testing is carried out with frequency rang 30MHz to 12.75GHz, which emissions are too small are not list above.



## 9. Receiver Blocking

### 9.1 Standard Application

Receiver blocking is a measure of the ability of the equipment to receive a wanted signal on its operating channel without exceeding a given degradation due to the presence of an unwanted input signal (blocking signal) on frequencies other than those of the operating band and spurious responses.

#### Performance Criteria

For equipment that supports a PER or FER test to be performed, the minimum performance criterion shall be a PER or FER less than or equal to 10 %.

For equipment that does not support a PER or a FER test to be performed, the minimum performance criterion shall be no loss of the wireless transmission function needed for the intended use of the equipment.

The minimum performance criterion shall be a PER less than or equal to 10 %. The manufacturer may declare alternative performance criteria as long as that is appropriate for the intended use of the equipment (see clause 5.4.1.t)).

While maintaining the minimum performance criteria as defined in clause 4.3.1.12.3, the blocking levels at specified frequency offsets shall be equal to or greater than the limits defined for the applicable receiver category provided in table 6, table 7 or table 8.

#### Receiver category 1

Adaptive equipment with a maximum RF output power greater than 10 dBm e.i.r.p. shall be considered as receiver category 1 equipment.

#### Receiver category 2

non-adaptive equipment with a Medium Utilization (MU) factor greater than 1 % and less than or equal to 10 % (irrespective of the maximum RF output power); or equipment (adaptive or non-adaptive) with a maximum RF output power greater than 0 dBm e.i.r.p. and less than or equal to 10 dBm e.i.r.p.

#### Receiver category 3

non-adaptive equipment with a maximum Medium Utilization (MU) factor of 1 % (irrespective of the maximum RF output power); or equipment (adaptive or non-adaptive) with a maximum RF output power of 0 dBm e.i.r.p.



Table 6: Receiver Blocking parameters for Receiver Category 1 equipment

<b>Wanted signal mean power from companion device (dBm) (see notes 1 and 4)</b>	<b>Blocking signal frequency (MHz)</b>	<b>Blocking signal power (dBm) (see note 4)</b>	<b>Type of blocking signal</b>
(-133 dBm + 10 × log <sub>10</sub> (OCBW)) or -68 dBm whichever is less (see note 2)	2 380 2 504		
(-139 dBm + 10 × log <sub>10</sub> (OCBW)) or -74 dBm whichever is less (see note 3)	2 300 2 330 2 360 2524 2584 2674	-34	CW

NOTE 1: OCBW is in Hz.

NOTE 2: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to P<sub>min</sub> + 26 dB where P<sub>min</sub> is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.

NOTE 3: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to P<sub>min</sub> + 20 dB where P<sub>min</sub> is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.

NOTE 4: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned as recorded in clause 5.4.3.2.2.



Table 7: Receiver Blocking parameters receiver category 2 equipment

<b>Wanted signal mean power from companion device (dBm) (see notes 1 and 3)</b>	<b>Blocking signal frequency (MHz)</b>	<b>Blocking signal power (dBm) (see note 3)</b>	<b>Type of blocking signal</b>
(-139 dBm + 10 × log <sub>10</sub> (OCBW) + 10 dB) or (-74 dBm + 10 dB) whichever is less (see note 2)	2 380 2 504 2 300 2 584	-34	CW

NOTE 1: OCBW is in Hz.

NOTE 2: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to P<sub>min</sub> + 26 dB where P<sub>min</sub> is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.

NOTE 3: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned as recorded in clause 5.4.3.2.2.

Table 8: Receiver Blocking parameters receiver category 3 equipment

<b>Wanted signal mean power from companion device (dBm) (see notes 1 and 3)</b>	<b>Blocking signal frequency (MHz)</b>	<b>Blocking signal power (dBm) (see note 3)</b>	<b>Type of blocking signal</b>
(-139 dBm + 10 × log <sub>10</sub> (OCBW) + 20 dB) or (-74 dBm + 20 dB) whichever is less (see note 2)	2 380 2 504 2 300 2 584	-34	CW

NOTE 1: OCBW is in Hz.

NOTE 2: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to P<sub>min</sub> + 26 dB where P<sub>min</sub> is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.

NOTE 3: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned as recorded in clause 5.4.3.2.2.



## 9.2 Test Procedure

- Step 1: • For non-frequency hopping equipment, the UUT shall be set to the lowest operating channel.
- Step 2: • The blocking signal generator is set to the first frequency as defined in the appropriate table corresponding to the receiver category and type of equipment.
- Step 3: • With the blocking signal generator switched off, a communication link is established between the UUT and the associated companion device using the test setup shown in figure 6. The variable attenuator is set to a value that achieves the minimum performance criteria as specified in clause 4.3.1.12.3 or clause 4.3.2.11.3 with a resolution of at least 1 dB. The resulting level for the wanted signal at the input of the UUT is Pmin. This value shall be measured and recorded in the test report.
- The signal level is increased by the value provided in the table corresponding to the receiver category and type of equipment.
- Step 4: • The blocking signal at the UUT is set to the level provided in the table corresponding to the receiver category and type of equipment. It shall be verified and recorded in the test report that the performance criteria as specified in clause 4.3.1.12.3 or clause 4.3.2.11.3 is met.
- Step 5: • Repeat step 4 for each remaining combination of frequency and level for the blocking signal as provided in the table corresponding to the receiver category and type of equipment.
- Step 6: • For non-frequency hopping equipment, repeat step 2 to step 5 with the UUT operating at the highest operating channel.

## 9.3 Test Setup

According to the section 5.4.11.2.1, the test block diagram shall be used.

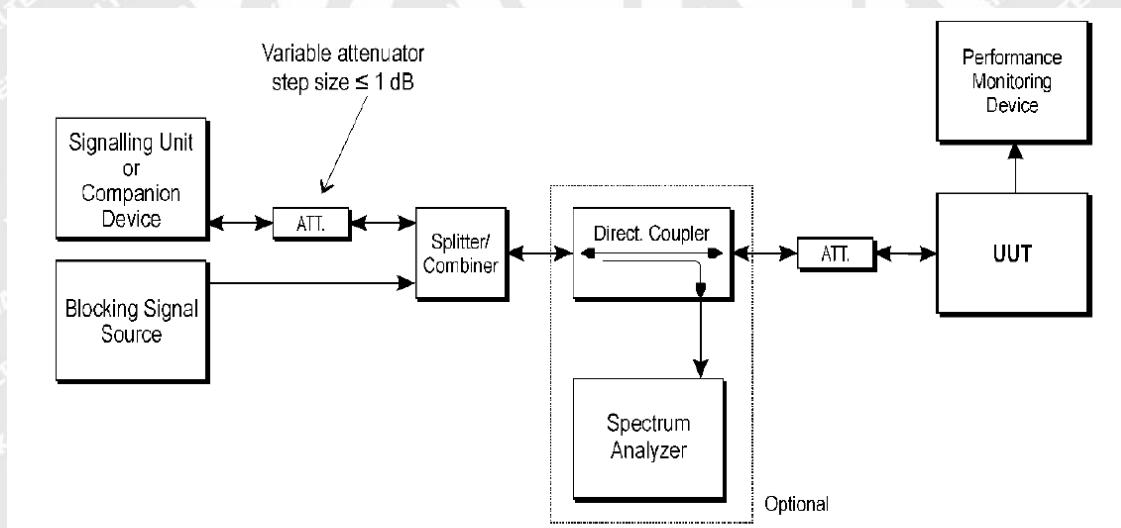


Figure 6: Test Set-up for receiver blocking

All test procedure is carried to the section 5.4.11.2.1

RBW/VBW=8MHz/30MHz



## 9.4 Summary of Test Results/Plots

- The product is receiver category 2

Mode/ Channel	Wanted signal power (dBm)	Blocking signal Frequency (MHz)	Blocking signal power (dBm)	Test PER(%)	Limit(%)	Result
Thread- Low channel	-65.50	2380	-34	3.57	<10	Pass
		2504				
		2300				
		2584				
Thread- High channel	-65.48	2380	-34	3.36	<10	Pass
		2504				
		2300				
		2584				

\*communication link is established between the UUT and the associated companion device using the test setup shown in figure 6. While the Companion device (CMW500) adjust to a level which can obtain the minimum performance criteria PER 10%, This level define to Pmin

Remark: the smallest channel bandwidth shall be used together with the lowest data rate for this channel bandwidth. This mode of operation are aligned with the performance criteria defined in clause 4.3.1.12.3 or clause 4.3.2.11.3 as declared by the manufacturer (see clause 5.4.1.t)).



## EXHIBIT 1 - EUT PHOTOGRAPHS

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Please refer to "ANNEX ASNZS".

**WALTEK**



## EXHIBIT 2 - Test setup photo

<p><b>Spurious Emission Test Setup (Below 1GHz)</b></p>	A photograph of a test setup in an anechoic chamber. A white rectangular device is mounted on a black turntable, which is positioned on a circular black mat. The turntable is surrounded by a grid of black crosses. The walls of the chamber are covered with white acoustic panels. A metal frame structure is visible on the right side.
<p><b>Spurious Emission Test Setup (Above 1GHz)</b></p>	A photograph of a test setup in an anechoic chamber. A white rectangular device is mounted on a black turntable, which is positioned on a circular black mat. The turntable is surrounded by a grid of black crosses. The walls of the chamber are covered with white acoustic panels. A metal frame structure is visible on the right side. The floor of the chamber is covered with black foam rubber tiles.

\*\*\*\*\* END OF REPORT \*\*\*\*\*